



SNC-DF50P

Intelligent compact network mini-dome camera with Sony-unique DynaView technology

Network mini-dome camera



This powerful yet compact network camera supports an efficient and intelligent processing method called intelligent video analytics. This determines automatically when an image should be recorded or an alarm should be triggered. Coupled with this intelligence, the camera delivers a dramatic improvement in dynamic range (128 times that of a conventional camera) thanks to Sony-unique DynaView technology. This makes the camera ideal in extremely high-contrast environments. Designed for indoor use, its clever design saves time and effort at installation, and gives you true location flexibility.

Features

1/3-type CCD with DynaView technology

This feature dramatically improves the camera's dynamic range (128x greater than a conventional camera) by capturing the same image twice (the dark areas at normal shutter speed; then the bright areas at high shutter speed) and combining these into one image using an advanced DSP LSI.

Intelligent video analytics

Based on the Sony Distributed Processing Architecture (DEPA) platform, this efficient and intelligent processing method comprises intelligent built-in camera functions -

such as Intelligent Motion Detection (IMD) and Intelligent Object Detection (IOD) - and rules or filters that determine which images should be recorded or when an alarm should be triggered.

Selectable JPEG, MPEG-4 and H.264 compression formats

This multi-codec camera supports three compression formats: JPEG, the best choice of high-quality still images; MPEG-4, the format that provides clear moving images efficiently over limited-bandwidth networks; and H.264, the alternative for severely limited-bandwidth networks, providing twice the efficiency of MPEG-4. The camera can generate JPEG and MPEG-4 images simultaneously.

Sony-patented Ball-Joint Lens Mount mechanism

This mechanism is incorporated into the vari-focal lens, enabling the lens to be rotated freely in any direction. Unlike conventional cameras, a simple single action is all that's required to adjust the pan and tilt angle. It provides quick and easy adjustment of the camera's viewing angle during installation.

Flexible and easy installation

This camera is easily wall-mounted or ceiling mounted. Camera focus and viewing angle can be easily and accurately adjusted using the secondary video output (the RCA phono jack, located at the rear of the camera along with a BNC video output).

3.6x zoom, auto-iris vari-focal lens

Equipped with a 3.6x zoom vari-focal lens, this camera can cover an extremely wide range of viewing angles from 100.8° (wide angle) to 27.2° (telephoto). This feature provides installation flexibility for a number of different applications and locations

Dynamic Frame Integration (DFI)

DFI technology reproduces clear images containing both still and moving objects. It detects movement within an image and reproduces those areas with minimal blurring (areas with little/no movement are displayed naturally with minimal jagged edges). It also exploits the interlaced-scan CCD to provide clear images even in low light conditions.

Intelligent Motion Detection (IMD) and Intelligent Object Detection (IOD)

IMD triggers many actions (e.g., store/transfer images, activate external devices) and minimises false alarms. IOD is useful for detecting suspicious items left in public places or stalled cars/accidents on the road. With both IMD and IOD, intelligence is extended and refined when the camera is configured with other DEPA-enabled products.

Benefits

More effective high-contrast indoor security and surveillance monitoring

This camera can boost your indoor security and surveillance monitoring applications by reproducing clear

images with proper colour in extreme high-contrast environments, using Sony-unique DynaView technology.

Easier monitoring with intelligent, automatic image recording and alarm triggers

Your monitoring tasks are made easier by this camera's efficient and intelligent processing method - it determines automatically when an image should be recorded or an alarm should be triggered. It also minimises server workload, network bandwidth and storage requirements.

Operational convenience with three compression formats

Enjoy extraordinary operational flexibility using the best compression format for different image types and networks (JPEG for high-quality still images; MPEG-4 and H.264 for clear, moving images over bandwidth-limited and severely bandwidth-limited networks).

Easy to install and locate where you want

Thanks to a unique Sony-patented mechanism, just a simple, single action is required to adjust the viewing angle during installation. You can make your location choices secure in the knowledge that this camera will fit right in. It's ideal for wide-angle to telephoto applications, and for wall-mounting or ceiling-mounting.

Technical Specifications

Camera

Image device	1/3 type CCD imager (DynaView Technology)
Number of effective pixels	PAL: 440,000 pixels, 752 (H) x 582 (V)
Zoom ratio	Optical x3.6 (x1.5 Digital Zoom)
Focal length	f=2.8 – 10mm
Horizontal view angle	100.8 – 27.7 degree
F Number	F1.3 (Wide end), F3.0 (Tele end)
Iris	Auto
Minimum illumination	@50IRE : 0.7lx (AGC ON, F1.3) @30IRE : 0.35lx (AGC ON, F1.3)
Minimum object distance	300mm
Shutter speed	1/50 – 1/10,000 second (PAL)
Other functions	DynaView, Dynamic Frame Integration, Image stabilizer, Privacy Zone Masking

Image

Image Size	640 x 480(VGA), 320 x 240(QVGA), 160 x 120(QQVGA)
Compression format	JPEG, MPEG4, H.264 (Selectable)
Maximum frame rate	JPEG: VGA: max. 25fps (PAL) QVGA: max. 25fps (PAL) MPEG4: VGA: max. 25fps (PAL) QVGA: max. 25fps (PAL) H.264: VGA: max. 8fps (PAL) QVGA: max. 25fps (PAL)

Network

Protocols	TCP/IP, ARP, ICMP, HTTP, FTP (client/server), SMTP, DHCP, DNS, NTP, RTP/RTCP, SNMP (MIB-2)
Max simultaneous access	20 clients

Interface

Ethernet	10BASE-T / 100BASE-TX (RJ-45)
I/O port	Sensor input x 1, Alarm output x2

Analog video Output	Composite video (1Vp-p)
External microphone input	Mini-jack (Monaural), 2.2k ohm, 2.5VDC plug-in power
Audio line output	Mini-jack (Monaural), Max output level: 1 V rms

Analog video output

Signal system	PAL
Horizontal Resolution	480 lines
S/N ratio	more than 50dB

System Requirements

OS	Windows 2000/ Windows XP
CPU	Pentium4 1.5GHz or higher (2.4GHz or higher is recommended)
Web browser	Microsoft Internet Explorer Ver6.0 or higher

General

Mass	approx. 920 g
Dimensions	126 x 140.5 (f x H mm)
Power requirement	PoE (IEEE-802.3af), AC24V, DC12V
Power consumption	max. 9W
Operating temperature	-10C to +50C
Storage temperature	-20C to +60C
Storage humidity	20 to 80%
Storage humidity	20 to 95%